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10/824,162	04/14/2004	Scott A. Konersmann	MS307731.1/MSFTP623US	6351
	7590 08/23/2007 CY & CALVIN, LLP	EXAMINER		
24TH FLOOR, NATIONAL CITY CENTER 1900 EAST NINTH STREET			JUNG, DAVID YIUK	
CLEVELAND,			ART UNIT	PAPER NUMBER
			2134	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)	
Office Action Summary		10/824,162	KONERSMANN, SCOTT A.	
		Examiner	Art Unit	
		David Y. Jung	2134	
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet wi	th the correspondence address	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory perioure to reply within the set or extended period for reply will, by status reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re of will apply and will expire SIX (6) MON ute, cause the application to become AB	CATION. Poply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			•	
1)	Responsive to communication(s) filed on			
		nis action is non-final.		
3)[Since this application is in condition for allow	ance except for formal matte	ers, prosecution as to the merits is	
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposit	ion of Claims			
5) 6) 7)	Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are withdred Claim(s) is/are allowed. Claim(s) 1-22 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	awn from consideration.		
Applicat	ion Papers		·	
	The specification is objected to by the Examir The drawing(s) filed on is/are: a) \(\subseteq \subseteq a\) Applicant may not request that any objection to the Replacement drawing sheet(s) including the corresponding to the correspon	ccepted or b) objected to be drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
11)	The oath or declaration is objected to by the I			
Priority (under 35 U.S.C. § 119	•		
12) <u> </u>	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document according to the certified copies of the priority document application from the International Bure See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	oplication No received in this National Stage	
2) Notice 3) Information	te of References Cited (PTO-892) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) ter No(s)/Mail Date 2004;2005;2007.	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application 	

DETAILED ACTION

CLAIMS PRESENTED

Claims 1-22 are presented.

NOTES ON ART

http://www.verisign.com/wss/WS-SecureConversation.pdf acknowledges Mr.
Scott Konersmann (same name and same company as that of the inventor of this patent application)

CLAIM REJECTIONS

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Regarding claims 1-22, the claimed invention is directed to non-statutory subject matter. Claims recite only perfunctory recitation of functional material (computer readable medium, etc.). Aside from this, the claims recite only nonfunctional descriptive material. When nonfunctional descriptive material is recorded on some computer-readable medium, in a computer or on an electromagnetic carrier signal, it is not statutory since no requisite functionality is present to satisfy the practical application requirement. Merely claiming nonfunctional descriptive material, i.e., abstract ideas, stored on a computer-readable medium, in a computer, or on an electromagnetic carrier

signal, does not make it statutory. See Diehr, 450 U.S. at 185-86, 209 USPQ at 8 (noting that the claims for an algorithm in Benson were unpatentable as abstract ideas because "[t]he sole practical application of the algorithm was in connection with the programming of a general purpose computer."). Such a result would exalt form over substance.

For further guidance on the term "nonfunctional", please see MPEP 2106.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over and Helland (http://www.microsoft.com/presspass/exec/flessner/04-11flessnerteched.mspx) and Bresson (cited by Applicant, EMMANUEL BRESSON, et al., Provably Authenticated Group Diffie-Hellman Key Exchange, CCS'01, 2001, pp. 255-264, Philadelphia, Pennsylvania, USA) and letf (http://tools.ietf.org/html/draft-ietf-sip-fc2543bis-09, section 26) and SecureConversation(http://www.verisign.com/wss/WS-SecureConversation.pdf).

Regarding claim 1, Bresson teaches A communication system comprising:
a secure message generation system that employ a first [] to
encrypt a first message to be sent to a second service; and, a secure message receiver
system that employs a second [] to decrypt a second message received from the
second service (Bresson, pages 255-256, i.e., encryption, decryption).

letf teaches "dialog session (Section 26.1.4 Tearing Down Session, the first paragraph, the discussion on dialog and/or session)" and "session key (Section 26.1.3 Tampering with Message Bodies, the third paragraph, the discussion on session key

and on end-to-end security)" for the motivation of security.

These passages of Bresson do not teach "dialog session" or "session key."

These passages of Bresson and left are not explicit about the particular way that the claimed invention, as a whole, would produce such autonomous nature of data handling. This is difficult to quote from any single phrase or any single word of the claim; the autonomous nature is difficult to quote, but prominently exists. For example, the dialog session key for encrypting a message and the dialog session key for decrypting that message or any other message can be different. Separate dialog keys permit separate fiefdoms instead of the entire kingdom of network being ruled by a single session key.

Helland teaches such autonomous nature. Mr. Helland (the person in this Helland reference) is of the same company as that of this patent application. Helland (the reference) contains a section in which Mr. Helland and Mr. Flessner discuss

fiefdom and autonomous nature (which are usually expressed in certificates and/or dialog sessions being unique).

These passage of Bresson, letf, Helland are not explicit about the different dialog keys being used for the same service (as in the claims).

SecureConversation teaches such different dialog keys being used for the same service (section 5. Deriving Keys, i.e., the derived key situation permits and recommends each party changing session keys and the other party being able to derive the keys needed for use in the service) for the motivation of establishing and sharing security contexts.

Hence, it would have been obvious to those of ordinary skill in the art at the time of the claimed invention to combine the teachings of Bresson, letf, Helland and SecureConversation for the motivations noted in the previous paragraphs so as to teach the claimed invention.

2. The communication system of claim 1, the secure message generation system comprising: a service pair encryption component that employs an initiator private key to encrypt authentication information; a key exchange key encryption component that employs a target public key to encrypt a key exchange key;

[Bresson, pages 255-256 teaches the key exchange key and the features using the key exchange key.]

a dialog session key encryption component that employs the key exchange key to encrypt the first dialog session key;

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a message body encryption component that employs the first dialog session key to encrypt a message body of the first message to be sent to the second service;

[letf, Section 26.1 teaches dialog session key and the features using the dialog session key.]

and,

a message generator that provides the encrypted first message to the second service, the encrypted first message being based, at least in part, upon the encrypted authentication information, the encrypted key exchange key, the encrypted first dialog session key and the encrypted message body.

[Such message handling is implied in a communication. Messages are often used in communication.]

3. The communication system of claim 2, the key exchange key comprising a symmetric key.

Symmetric keys are well known in the art for the motivation of convenience in security (often easier generation and easier distribution).

4. The communication system of claim 2, the key exchange key comprising a 128-bit symmetric key.

Such application of symmetric keys are well known in the art for the motivation of convenience in security (often easier generation and easier distribution).

Regarding claims 6-12, such various policy handlings well known for security and efficiency.

Regarding claim 13, Bresson teaches A method facilitating secure communication comprising: providing an encrypted first message of a dialog based, at least in part, upon a first [] key; and, decrypting an encrypted second message of the dialog, decryption being based, at least in part, upon a second [] key(Bresson, pages 255-256, i.e., encryption, decryption).

These passages of Bresson do not teach "dialog session" or "session key."

letf teaches "dialog session (Section 26.1.4 Tearing Down Session, the first paragraph, the discussion on dialog and/or session)" and "session key (Section 26.1.3 Tampering with Message Bodies, the third paragraph, the discussion on session key and on end-to-end security)" for the motivation of security.

These passages of Bresson and left are not explicit about the particular way that the claimed invention, as a whole, would produce such autonomous nature of data handling. This is difficult to quote from any single phrase or any single word of the claim; the autonomous nature is difficult to quote, but prominently exists. For example, the dialog session key for encrypting a message and the dialog session key for decrypting that message or any other message can be different. Separate dialog keys permit separate fiefdoms instead of the entire kingdom of network being ruled by a single session key.

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(the reference) contains a section in which Mr. Helland and Mr. Flessner discuss fiefdom and autonomous nature (which are usually expressed in certificates and/or dialog sessions being unique).

These passage of Bresson, letf, Helland are not explicit about the different dialog keys being used for the same service (as in the claims).

SecureConversation teaches such different dialog keys being used for the same service (section 5. Deriving Keys, i.e., the derived key situation permits and recommends each party changing session keys and the other party being able to derive the keys needed for use in the service) for the motivation of establishing and sharing security contexts.

Hence, it would have been obvious to those of ordinary skill in the art at the time of the claimed invention to combine the teachings of Bresson, letf, Helland and SecureConversation for the motivations noted in the previous paragraphs so as to teach the claimed invention.

Regarding claims 14-19, such various policy handlings well known for security and efficiency.

On claim 20, Bresson teaches A data packet transmitted between two or more computer components that facilitates secure communication, the data packet comprising: a key exchange key header comprising an encrypted key exchange key; a [] key header comprising a first [] key encrypted with the key exchange key; and, a message body field comprising a message encrypted with the first [] key, the data packet received by a service that employs a second [] key to

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encrypt a message the service originates(Bresson, pages 255-256, i.e., encryption, decryption).

These passages of Bresson do not teach "dialog session" or "session key."

letf teaches "dialog session (Section 26.1.4 Tearing Down Session, the first paragraph, the discussion on dialog and/or session)" and "session key (Section 26.1.3 Tampering with Message Bodies, the third paragraph, the discussion on session key and on end-to-end security)" for the motivation of security.

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These passage of Bresson, letf, Helland are not explicit about the different dialog keys being used for the same service (as in the claims).

SecureConversation teaches such different dialog keys being used for the same service (section 5. Deriving Keys, i.e., the derived key situation permits and recommends each party changing session keys and the other party being able to derive the keys needed for use in the service) for the motivation of establishing and sharing security contexts.

Hence, it would have been obvious to those of ordinary skill in the art at the time of the claimed invention to combine the teachings of Bresson, letf, Helland and SecureConversation for the motivations noted in the previous paragraphs so as to teach the claimed invention.

On claim 21, Bresson teaches A computer readable medium storing computer executable components of a communication system, comprising: a secure message generation system component that employs a first [] key to encrypt a first message to be sent to a second service; and a secure message receiver system component that employs a second [] key to decrypt a second message received from the second service(Bresson, pages 255-256, i.e., encryption, decryption).

These passages of Bresson do not teach "dialog session" or "session key."

letf teaches "dialog session (Section 26.1.4 Tearing Down Session, the first paragraph, the discussion on dialog and/or session)" and "session key (Section 26.1.3 Tampering with Message Bodies, the third paragraph, the discussion on session key and on end-to-end security)" for the motivation of security.

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These passage of Bresson, letf, Helland are not explicit about the different dialog keys being used for the same service (as in the claims).

SecureConversation teaches such different dialog keys being used for the same service (section 5. Deriving Keys, i.e., the derived key situation permits and recommends each party changing session keys and the other party being able to derive the keys needed for use in the service) for the motivation of establishing and sharing security contexts.

Hence, it would have been obvious to those of ordinary skill in the art at the time of the claimed invention to combine the teachings of Bresson, letf, Helland and SecureConversation for the motivations noted in the previous paragraphs so as to teach the claimed invention.

On claim 22, Bresson teaches A communication system comprising: means for generating a secure first message employing a first [] key to encrypt a first message to be sent to a second service; means for receiving a secure second message from the second service; and, means for decrypting the second message employing a second [] key(Bresson, pages 255-256, i.e., encryption, decryption).

letf teaches "dialog session (Section 26.1.4 Tearing Down Session, the first paragraph, the discussion on dialog and/or session)" and "session key (Section 26.1.3 Tampering with Message Bodies, the third paragraph, the discussion on session key

and on end-to-end security)" for the motivation of security.

These passages of Bresson do not teach "dialog session" or "session key."

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Hence, it would have been obvious to those of ordinary skill in the art at the time of the claimed invention to combine the teachings of Bresson, letf, Helland and SecureConversation for the motivations noted in the previous paragraphs so as to teach the claimed invention.

Conclusion

The art made of record and not relied upon is considered pertinent to applicant's disclosure. The art disclosed general background.

Points of Contact

Any response to this action should be mailed to:

or faxed to:

(571) 273-8300, (for formal communications intended for entry)

Or:

(571) 27<u>3</u>-3836 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Jung whose telephone number is (571) 272-3836 or Kambiz Zand whose telephone number is (272) 272-3811.

David Jung

Patent Examiner

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